

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10764772
Filing Date	2004-01-26
First Named Inventor	M.F. FONTOURA et al.
Art Unit	2163
Examiner Name	Wilson Lee
Attorney Docket Number	SVL920030120US1

## U.S. PATENTS

Remove

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
W2	1	4965763		1990-10-23	Zamora	
W2	2	5187790		1993-02-16	East et al.	
W2	3	5265221		1993-11-23	Miller	
W2	4	5297039		1994-03-22	Kanaegami et al.	
W2	5	5638543		1997-06-10	Pederson et al.	
W2	6	5708825		1998-01-13	Sotomayor	
W2	7	5721938		1998-02-24	Stuckey	
W2	8	5721939		1998-02-24	Kaplan	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

W2	9	5729730		1998-03-17	Wlaschin et al.	
W2	10	5809502		1998-09-15	Burrows	
W2	11	5862325		1999-01-19	Reed et al.	
W2	12	5884305		1999-03-16	Kleinberg et al.	
W2	13	5890103		1999-03-30	Carus	
W2	14	5903646		1999-05-11	Rackman	
W2	15	5909677		1999-06-01	Broder et al.	
W2	16	5933822		1999-08-03	Braden-Harder et al.	
W2	17	5963940		1999-10-05	Liddy et al.	
W2	18	5974412		1999-10-26	Hazlehurst et al.	
W2	19	6026388		2000-02-15	Liddy et al.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

N2	20	5920859		1999-07-06	Li	
N2	21	6035268		2000-03-07	Carus et al.	
N2	22	6119124		2000-09-12	Broder et al.	
N2	23	6182121		2001-01-30	Wlaschin	
N2	24	6192333		2001-02-20	Pentheroudakis	
N2	25	6205456		2001-03-20	Nakao	
N2	26	6192258		2001-02-20	Kamada et al.	
N2	27	6269361		2001-07-31	Davis et al.	
N2	28	6285999		2001-09-04	Page	
N2	29	6295529		2001-09-25	Corston-Oliver et al.	
N2	30	6308179		2001-10-23	Peterson et al.	

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

N2	31	6324566		2001-11-27	Himmel et al.	
N2	32	6381602		2002-04-30	Shoroff et al.	
N2	33	6421655		2002-07-16	Horvitz et al.	
N2	34	6519592		2003-02-11	Getchius et al.	
N2	35	6547829		2003-04-15	Meyerzon et al.	
N2	36	6553385		2003-04-22	Johnson et al.	
N2	37	6578032		2003-06-10	Chandrasekar et al.	
N2	38	6594682		2003-07-15	Peterson et al.	
N2	39	6615209		2003-09-02	Gomes et al.	
N2	40	6618725		2003-09-09	Fukuda et al.	
N2	41	7051023		2006-05-23	Kapur et al.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

<i>WZ</i>	42	6631369		2003-10-07	Meyerzon et al.	
<i>WZ</i>	43	6631496		2003-10-07	Li et al.	
<i>WZ</i>	44	6633872		2003-10-14	Ambrosini et al.	
<i>WZ</i>	45	6643650		2003-11-04	Slaughter et al.	
<i>WZ</i>	46	6658406		2003-12-02	Mazner et al.	
<i>WZ</i>	47	6658423		2003-12-02	Pugh et al.	
<i>WZ</i>	48	6665657		2003-12-16	Dibachi	
<i>WZ</i>	49	6678409		2004-01-13	Wu et al.	
<i>WZ</i>	50	6754873		2004-06-22	Law et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

**U.S.PATENT APPLICATION PUBLICATIONS**

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code*	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
-------------------	---------	--------------------	------------	------------------	---	--

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

( Not for submission under 37 CFR 1.99)

Application Number	10764772
Filing Date	2004-01-26
First Named Inventor	M.F. FONTOURA et al.
Art Unit	2163
Examiner Name	Wilson Lee
Attorney Docket Number	SVL920030120US1

1					
---	--	--	--	--	--

If you wish to add additional U.S. Published Application citation information please click the Add button. [Add](#)

## FOREIGN PATENT DOCUMENTS

[Remove](#)

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> i	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
WZ	1	0 809 197	EP		1997-11-26	Ishikawa et al.		<input type="checkbox"/>
WZ	2	9749048	WO		1997-12-24	Yanhong		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button. [Add](#)

## NON-PATENT LITERATURE DOCUMENTS

[Remove](#)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
WZ	1	AGRAWAL, S., S CHAUDHURI and G. DAS, "DBXplorer: A System for Keyword-Based Search over Relational Databases," Proceedings of 18th International Conference on Data Engineering, 2002, 12 pp.	<input type="checkbox"/>
WZ	2	AGRAWAL, S., S CHAUDHURI and G. DAS, "DBXplorer: Enabling Keyword Search over Relational Databases", Proceedings of the 2002 ACM SIGMOD International Conference on Management of Data, 2002, pg. 627.	<input type="checkbox"/>
WZ	3	BHALOTIA, G., A. HULGERI, C NAKHE, S. CHAKRABARTI and S. SUDARSHAN, "Keyword Searching and Browsing in Databases Using BANKS", Proceedings of the 18th International Conference on Data Engineering, 2002, 10 pp.	<input type="checkbox"/>
WZ	4	BRIN, S. and L. PAGE, "The Anatomy of a Large-Scale Hypertextual Web Search Engine", Computer Networks and ISDN Systems, Vol. 30, No. 1-7, 1998, pp. 107-117.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

NR	5	BRODER, A.Z., D. CARMEL, M. HERSCOVICHI, A. SOFFER and J. ZIEN, "Efficient Query Evaluation Using a Two-Level Retrieval Process", Twelfth International Conference on Information Knowledge Management (CIKM 2003), 2003, pp. 426-434.	<input type="checkbox"/>
NR	6	BRODER, A.Z., S.C. GLASSMAN, M.S. MANASSE, and G. ZWEIG, "Syntactic Clustering of the Web", Computer Networks and ISDN Systems, Vol. 29, Iss. 8-13, 1997, pp. 1157-1166.	<input type="checkbox"/>
NR	7	BRUNO, N., K. KOUDAS and D. SRIVASTAVA, "Holistic Twig Joins: Optimal XML Pattern Matching", Proceedings of the 2002 ACM SIGMOD International Conference on Management of Data, 2002, pp. 310-321.	<input type="checkbox"/>
NR	8	CARMEL, D., Y. MAAREK, M. MANDELBROD, Y. MASS and A. SOFFER, "Searching XML Documents via XML Fragments," Proceedings of the 26th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 2003, pp. 151-158.	<input type="checkbox"/>
NR	9	FONTOURA, M., E. SHEKITA, J. ZIEN, S. RAJAGOPALAN and A. NEUMANN, "High Performance Index Build Algorithms for Intranet Search Engines", Proceedings of 30th International Conference on Very Large Data Bases, 2004, pp. 1158-1169.	<input type="checkbox"/>
NR	10	FRENCH, G., "Hacking the Google Numrange Operator", [online], April 1, 2004, [retrieved on August 31, 2004], retrieved from the Internet at <URL: <a href="http://www.webpronews.com/insiderreports/searchinsider/wpn-49-20040401HackingtheGoogleNumrangeOperator.html">http://www.webpronews.com/insiderreports/searchinsider/wpn-49-20040401HackingtheGoogleNumrangeOperator.html</a> >.	<input type="checkbox"/>
NR	11	GOOGLE, "Advanced Search", [online], 2003, [retrieved on August 31, 2004], retrieved from the Internet at <URL: <a href="http://www.google.com/help/refinerearch.html">http://www.google.com/help/refinerearch.html</a> >.	<input type="checkbox"/>
NR	12	GRAVANO, L., P.G. IPEIROTIS, N. KOUDAS and D. SRIVASTAVA, "Text Joins in an RDBMS for Web Data Integration", Proceedings of the 12th International Conference on World Wide Web, 2003, pp. 90-101.	<input type="checkbox"/>
NR	13	GUTTMAN, A., "R-Trees: A Dynamic Index Structure for Spatial Searching", Proceedings of the 1984 ACM SIGMOD International Conference on Management of Data, 1984, pp. 47-57.	<input type="checkbox"/>
NR	14	HRISTIDIS, V. and Y. PAPAKONSTANTINOY, "DISCOVER: Keyword Search in Relational Databases", Proceedings of the 28th VLDB Conference, 2002, 12 pp.	<input type="checkbox"/>
NR	15	KAUSHIK, R., R. KRISHNAMURTHY, J.F. NAUGHTON and R. RAMAKRISHNAN, "On the Integration of Structure Indexes and Inverted Lists," Proceedings of the 20th International Conference on Data Engineering, 2004, 1 pg.	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10764772
Filing Date	2004-01-26
First Named Inventor	M.F. FONTOURA et al.
Art Unit	2163
Examiner Name	Wilson Lee
Attorney Docket Number	SVL920030120US1

N2	16	MELNIK, S., S. RAGHAVAN, B. YANG AND H. GARCIA-MOLINA, "Building a Distributed Full-Text Index for the Web," ACM Transactions on Information Systems, Vol. 19, No. 3, July 2001, pp. 217-241.	<input type="checkbox"/>
N2	17	PRESS, W.H., B.P. FLANNERY, S.A. TEUKOLSKY AND W.T. VETTERLING, "Numerical Recipes in C: The Art of Scientific Computing", 1998, Ch. 9, pp. 258-263.	<input type="checkbox"/>
N2	18	RAGHAVAN, S. and H. GARCIA-MOLINA, "Complex Queries over Web Repositories", Proceedings of the 29th VLDB Conference, 2003, pp. 33-44.	<input type="checkbox"/>
N2	19	RAGHAVAN, S. and H. GARCIA-MOLINA, "Integrating Diverse Information Management Systems: A Brief Survey", IEEE Data Engineering Bulletin, 2001, Vol. 24, No. 4, pp. 44-52.	<input type="checkbox"/>
N2	20	RAMSAK, F., V. MARKL, R. FENK, M. ZIRKEL, K. ELHARDT and R. BAYER, "Integrating the UB-Tree into a Database System Kernel", Proceedings of 26th International Conference on Very Large Data Bases, September 2000, pp. 263-272.	<input type="checkbox"/>
N2	21	SPERTUS, E. and L.A. STEIN, "Squeal: A Structured Query Language for the Web", Proceedings of the 9th international World Wide Web Conference on Computer Networks, 2000, pp. 95-103.	<input type="checkbox"/>
N2	22	US Patent Application Serial No. 11/182,334, filed July 14, 2005, entitled "Enforcing Native Access Control to Indexed Documents", invented by R. LEMPEL, T. LEYBA, J.A. MCPHERSON, JR., and J.L. PEREZ.	<input type="checkbox"/>
N2	23	US Patent Application Serial No. 11/295,397, filed December 5, 2005, entitled "Improving Text Search Quality by Exploiting Organizational Information", invented by T. HAMPP, M. BAESSLER, A. LANG, T.W. GOETZ, A. BAADER, and J. DOERRE.	<input type="checkbox"/>
N2	24	LOMET, D. (Ed.), "Bulletin of the Technical Committee on Data Engineering", December 2001, Vol. 24, No. 4, 56 pp.	<input type="checkbox"/>
N2	25	LU, W, L. CHIEN, & H. LEE, "Anchor Text Mining for Translation of Web Queries", Proceedings from the International Conference on Data Mining, November 2001, pp. 401-408.	<input type="checkbox"/>
N2	26	PCT International Search Report and Written Opinion, May 6, 2005, for International Application No. PCT/EP2005/050321.	<input type="checkbox"/>

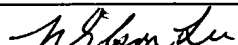


**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10764772
Filing Date	2004-01-26
First Named Inventor	M.F. FONTOURA et al.
Art Unit	2163
Examiner Name	Wilson Lee
Attorney Docket Number	SVL920030120US1

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	12/23/06
--------------------	---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10764772
	Filing Date		2004-01-26
	First Named Inventor	M.F. FONTOURA et al.	
	Art Unit	2163	
	Examiner Name	Wilson Lee	
	Attorney Docket Number	SVL920030120US1	

## U.S. PATENTS

Remove

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
N2	1	6766316		2004-07-20	Caudill	
N2	2	6789077		2004-09-07	Slaughter et al.	
N2	3	6810375		2004-10-26	Ejerhed	
N2	4	6839665		2005-01-04	Meyers	
N2	5	6839702		2005-01-04	Patel et al.	
N2	6	6839843		2005-01-04	Bacha et al.	
N2	7	6842730		2005-01-11	Ejerhed et al.	
N2	8	6845009		2005-01-18	Whitted	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

NZ	9	6850979		2005-02-01	Saulpaugh et al	
NZ	10	6865575		2005-03-08	Smith et al.	
NZ	11	6868447		2005-03-15	Slaughter et al.	
NZ	12	6870095		2005-03-22	Whitted	
NZ	13	6877136		2005-04-05	Bess et al.	
NZ	14	6906920		2005-06-14	Whitted	
NZ	15	6934634		2005-08-23	Ge	
NZ	16	5832480		1998-11-03	Byrd, Jr. et al.	
NZ	17	6182062		2001-01-30	Fujisawa et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

**U.S.PATENT APPLICATION PUBLICATIONS**

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
-------------------	---------	--------------------	------------------------	------------------	---	--

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

NR	1	20020006112		2002-01-17	Jaber et al.	
NR	2	20020032677		2002-03-14	Morgenthaler et al.	
NR	3	20020120685		2002-08-29	Srivastava et al.	
NR	4	20020129015		2002-09-12	Caudill et al.	
NR	5	20020165707		2002-11-07	Call	
NR	6	20020174149		2002-11-21	Conroy et al.	
NR	7	20020188615		2002-12-12	Latarche et al.	
NR	8	20030028564		2003-02-06	Sanfilippo	
NR	9	20030055626		2003-03-20	Miyahira et al.	
NR	10	20030217052		2003-11-20	Rubenczyk et al.	
NR	11	20030225763		2003-12-04	Guilak et al.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

NR	12	20030225779		2003-12-04	Matsuda	
NR	13	20030229604		2003-12-11	Zaragoza et al.	
NR	14	20040078356		2004-04-22	Mazner et al.	
NR	15	20040078753		2004-04-22	Doyle	
NR	16	20040123104		2004-06-24	Boyen et al.	
NR	17	20040162997		2004-08-19	Hopmann et al.	
NR	18	20040243554		2004-12-02	Broder et al.	
NR	19	20040243556		2004-12-02	Ferrucci et al.	
NR	20	20040243557		2004-12-02	Broder et al.	
NR	21	20040243560		2004-12-02	Broder et al.	
NR	22	20040243645		2004-12-02	Broder et al.	

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

( Not for submission under 37 CFR 1.99)

Application Number		10764772
Filing Date		2004-01-26
First Named Inventor	M.F. FONTOURA et al.	
Art Unit	2163	
Examiner Name	Wilson Lee	
Attorney Docket Number	SVL920030120US1	

72	23	20050044411		2005-02-24	Somin et al.	
72	24	20050149499		2005-07-07	Franz et al.	
72	25	20050149576		2005-07-07	Marmaros et al.	
72	26	20050149851		2005-07-07	Mittal	
72	27	20060074962		2006-04-06	Fontoura et al.	
72	28	20040111408		2004-06-10	Caudill et al.	
72	29	20020169770		2002-11-14	Kim et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

## **NON-PATENT LITERATURE DOCUMENTS**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

( Not for submission under 37 CFR 1.99)

Application Number	10764772
Filing Date	2004-01-26
First Named Inventor	M.F. FONTOURA et al.
Art Unit	2163
Examiner Name	Wilson Lee
Attorney Docket Number	SVL920030120US1

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button **EXAMINER SIGNATURE**

Examiner Signature		Date Considered	12/23/06
--------------------	---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.